





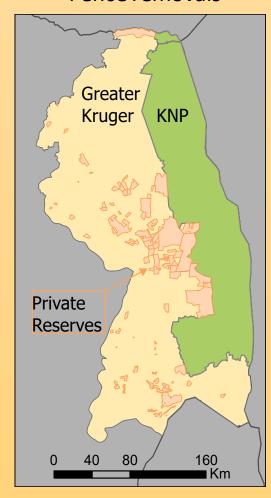




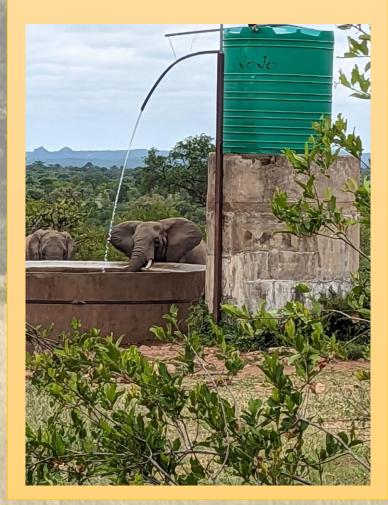
Greater Kruger National Park Region (GKNP) Collins Chabane Limpopo Ba-Phalaborwa Legend Bushbuckridge Greater Kruger Strategic Development Programme Priority Areas Implementation Clusters Protected Area **Ecological Priorities** Inkomati Usuthu Socio-Economic Development Strategic Water **Priorities**

GKNP – Rewilding

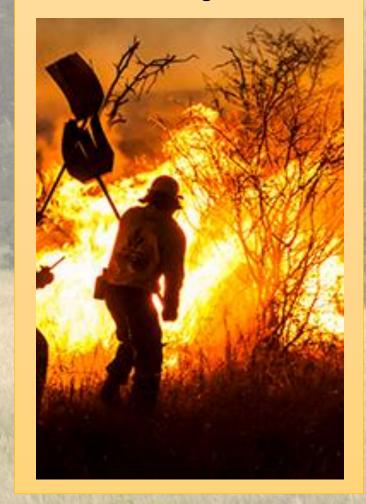
Fence removals



Artificial water source closures

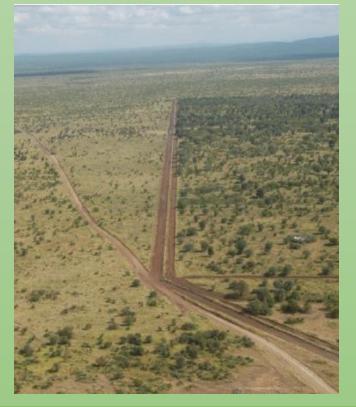


Fire Management



GKNP – Identify end-user priorities

Map vegetation changes



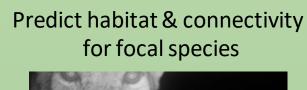








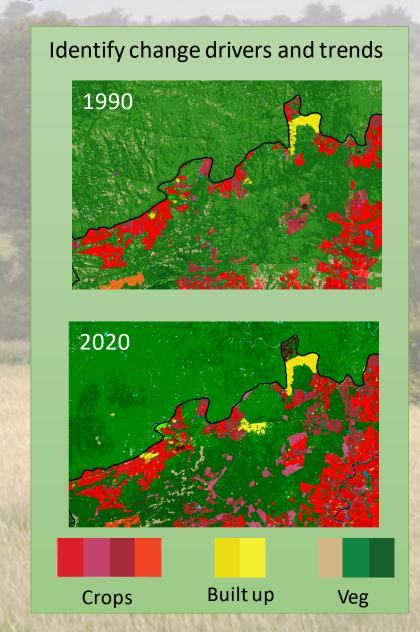






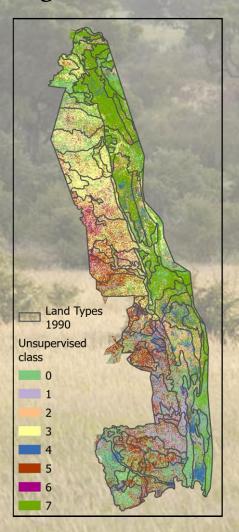




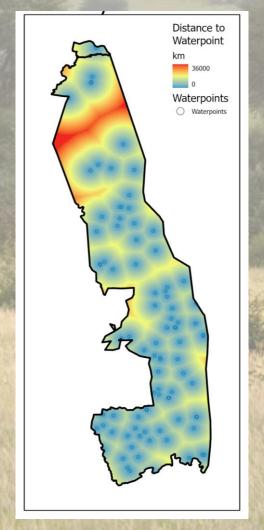


GKNP – Project Building Blocks

Vegetation Products



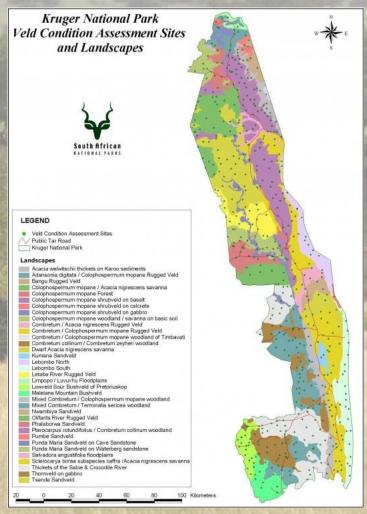
Surface Water



Urbanization Patterns

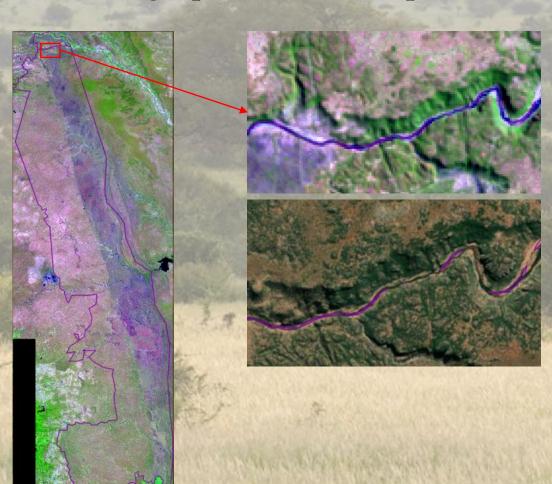


Broad vegetation type delineation



Venter 1990 Landscapes

Remote sensing captures finer scale spatial variation

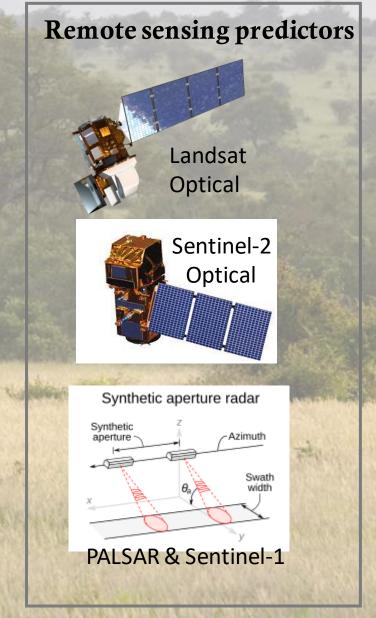


Reference sources

Past Veg Surveys



Our veg surveys of recent conditions

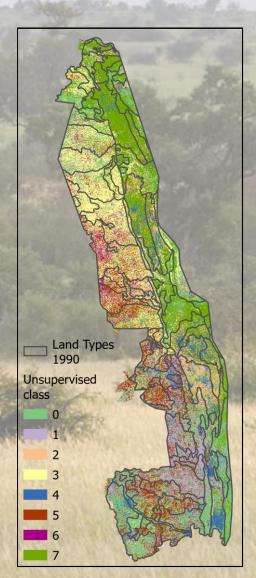


Reference sources

Past Veg Surveys



Our veg surveys of recent conditions



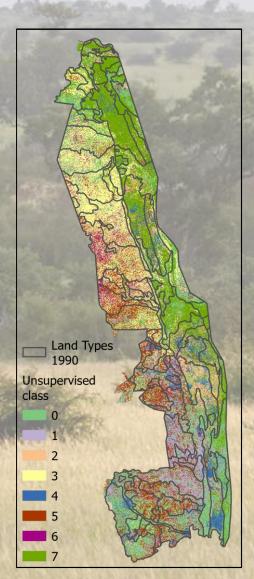
Remote sensing predictors Landsat **Optical** Sentinel-2 Optical Synthetic aperture radar Synthetic Azimuth Swath PALSAR & Sentinel-1

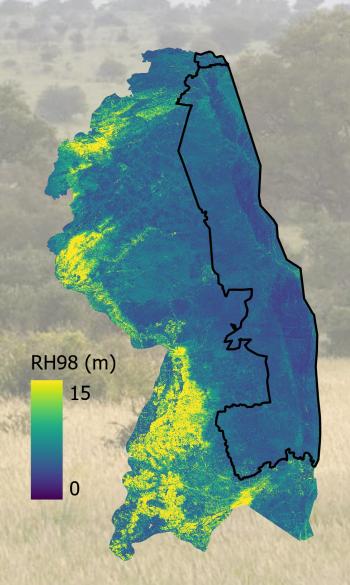


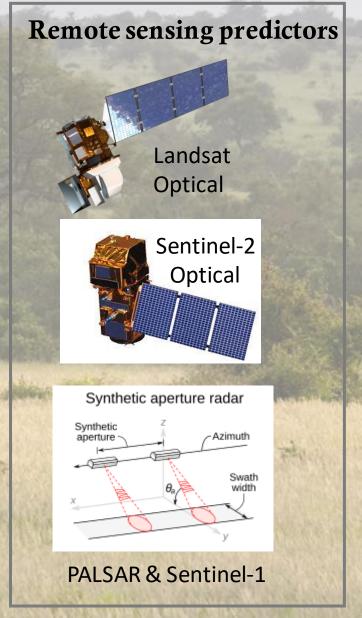
Past Veg Surveys



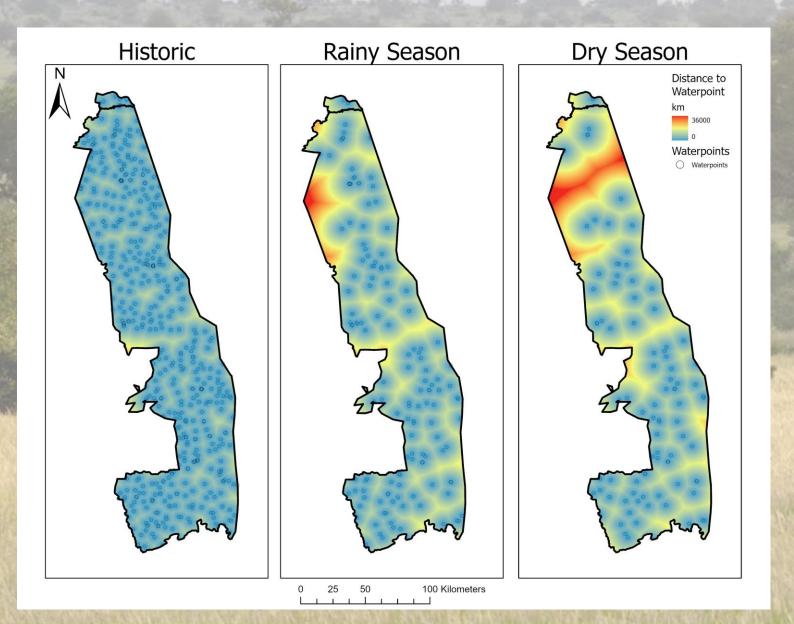
Our veg surveys of recent conditions







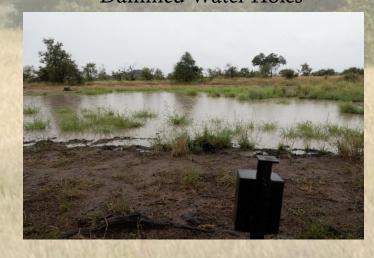
GKNP – Waterhole Management



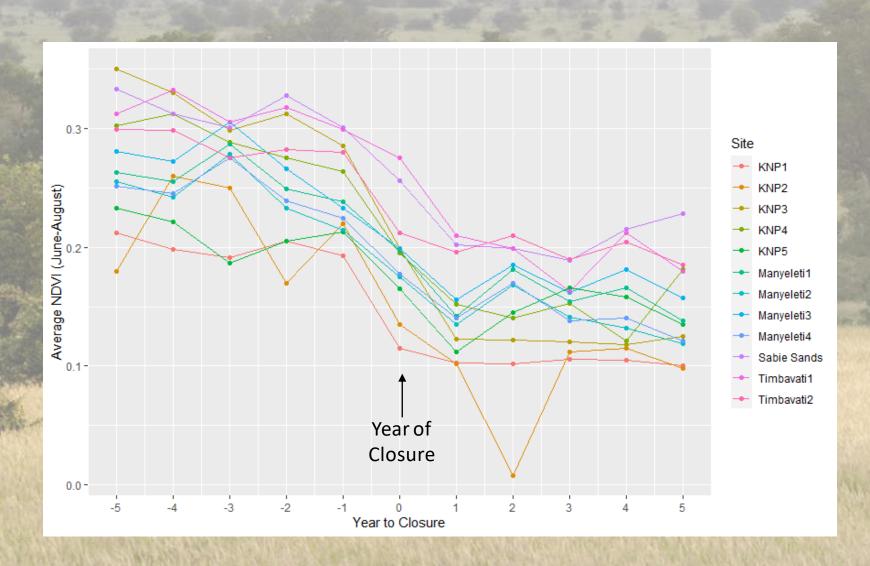
Artificial Bore Holes



Dammed Water Holes



GKNP – Waterhole Management



Artificial Bore Holes



Dammed Water Holes



GKNP – Urbanization Pressures

2021-2022 Undergrad Student Projects

Monitoring Sustainable Development Goal Indicator 11.3.1 for Expanding Urban Areas in South Africa

Cody Bingham, Jody Vogeler





Owen Joyce, Jody Vogeler
Department of Ecosystem Science and Sustainability







The interactions between LCLU changes and NFEPA rivers

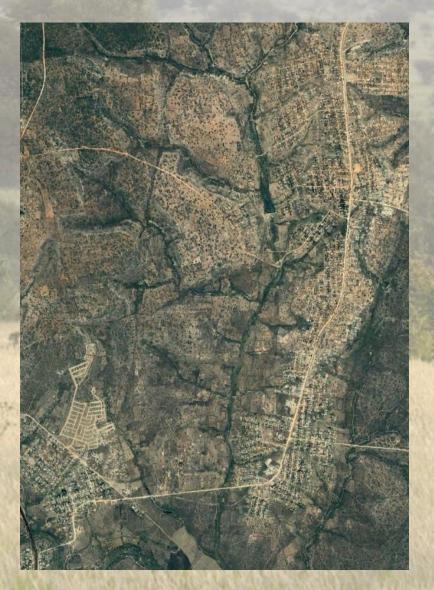
Keana Shadwell¹, Jody Vogeler, PhD.²

¹ Ecosystem Science and Sustainability Department, Colorado State University
² Natural Resources Ecology Laboratory, Colorado State University

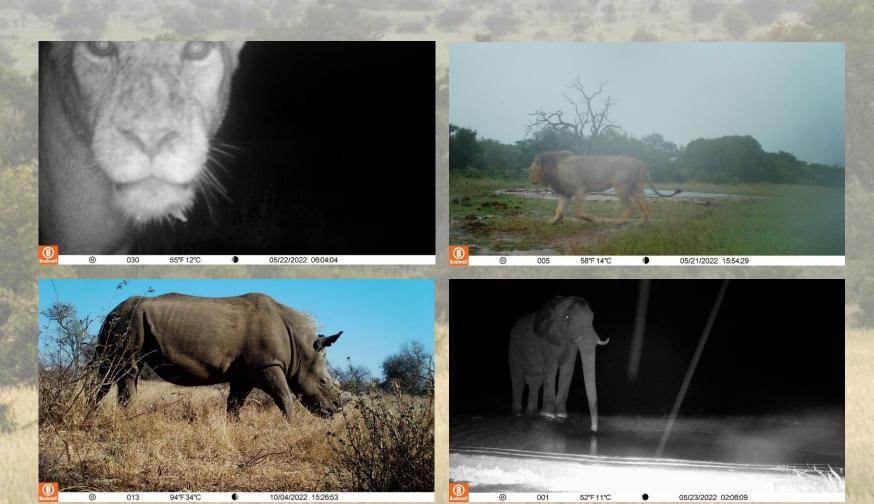


★ CSU College Honors Award –CURC Symposium





GKNP – Wildlife Habitat Connectivity





GKNP – Forecasting the effects of anticipated changes

